158. What is the least common multiple (or dividend) of the nine digits?

159. Divide 0.01764144 by 0.0018.

160. Reduce 7 fur. 29 rd. to the decimal of a mile.

161. What sum, at 7 per cent., will amount to $221.075 in 3 years 4 months?

162. What is the amount of $1,200 for 2 years at 6 per cent. compound interest, payable quarterly?

163. If $100 gain $6 in 1 year, what principal will gain $12 in 8 months?

164. To what number has $\frac{1}{2}$ the same ratio as exists between 3 and 21?

165. What number of men will be required to perform a piece of work in 8 days, that would take 15 men 24 days?

166. A. and B. enter into partnership. A. furnishes $240 for 8 months; and B. $560 for 5 months. They lost $118. How much did each man lose?

167. What is the square root of 61723020.96?

168. How many cubic quarter-inches are contained in a cubic inch?

Examination VIII. Feb. 19, 1869.

169. Add the following numbers: One hundred and eight billions, three hundred and six; twenty-one billions, twenty thousands, two hundred and ten; thirty billions, twenty-nine millions and three.

170. Reduce 2,579,792 drams avoirdupois to higher denominations.

171. Reduce 1 mi. 18 rd. 2 yd. 2 ft. to inches.

172. Multiply $\frac{3}{8}$ of $\frac{12}{7}$ by $3\frac{1}{2} \div 16$.

173. Divide $\frac{3}{12}$ of $\frac{18}{21}$ by $\frac{6}{7}$.

174. Find the least common multiple of all the even numbers from 1 to 15.

175. From the sum of $\frac{2}{3}$ and $\frac{4}{5}$ take $\frac{5}{18}$.

176. Add together $\frac{1}{10\frac{1}{32}}$ hhd. and $\frac{2}{7}$ gill.

177. Multiply 30.6002 by two and one ten-thousandth.

178. Divide 4.08 by .000136.

179. Reduce $\frac{3}{13\frac{7}{35}}$ to a decimal.

180. Reduce 8 oz. 5 pwt. 3 gr. to the decimal of a lb.

181. If 21 men in 12 days can do certain work, how many men in 7 days could do $\frac{2}{3}$ as much?

182. How much will it cost to dig a cellar 40 ft. long, 32 ft. wide, and 5 ft. deep, at $0.25 a cubic yard?

183. A. begins business with $500; at the end of 2 months B. puts in $300; at the end of 1 month more C. puts in $600; at the end of 5 months more, the profits amount to $1,056. What was each man's share?

184. 3 pence is what per cent. of 4 shillings?

185. What sum in 1 year will yield $48.75 at $12\frac{1}{2}$ per cent?

186. What is the bank discount on a note for $600 for 2 months and 9 days, at 10 per cent. per annum?

187. I sell goods for $511.29, and gain $9\frac{1}{4}$ per cent.; what did the goods cost me?

188. At what rate will $500 yield $34 interest in 1 year 1 month and 18 days?

189. What is the compound interest of $200 for 3 years at 7 per cent?

190. How much gold will $100 currency buy, gold being at 147?

191. What is the square root of 403.6081?

192. What is the cube root of $\frac{10648}{64000}$?

Examination IX. June 11, 1869.

193. The factors of a number are three hundred ninety-seven thousand five hundred, and nine thousand eight hundred. What is the product expressed in words?

194. If one man can mow 1.875 acres in a day, how many acres can 13 men mow in 7.5 days?

195. How many reams of commercial note paper each 8 in. long, 5 in. wide, and 3.5 in. thick, can be packed in a box, the inside dimensions of which are $41\frac{2}{3}$, and $\frac{7}{12}$ feet respectively?

196. A note given May 10, 1867, was paid August 10, 1868. How long did the note run?

196*a*. How long is a field containing 14 A., if it is 35 rd. wide?

197. If I start from latitude 15° 35′ 40″ north, and travel due north 2,159 geographic miles, in what latitude shall I then be?

198. How many seconds in the circumference of a circle?

199. Is 217 a prime or a composite number?

200. The four sides of my garden are 168 ft., 280 ft., 182 ft., and 252 ft. respectively: what is the great-